December 28, 1959

To: All Concerned

From: Clarence L. Johnson

Subject: BASIS FOR DESIGN TIME AT TEMPERATURE

25X1D

1. Consider basic aircraft operational life of five years. Be sure to include factors covered in my memo on design philosophy for [redacted]

2. Assume four full-length refueled missions per month. This is 4 x 12 x 5 = 240 total missions.

3. Of these missions, 7 hours are at design temperature.

4. 7 x 240 = 1680 hours for basic high temperature design.

5. Above gives 28 high temperature hours/month. This is ample to cover training, etc.

6. Critical skins could be replaced every 500 hours at temperature. This does not include fuselage nose but only a few wing panels and leading edges which might be critical.

Clarence L. Johnson

CLJ:vmp